

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number WAD980738548	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-8300	4. Manifest Tracking Number 001580590 JJK	
5. Generator's Name and Mailing Address Alaskan Copper Works 3200 Sixth Avenue South Seattle, WA 98124 Generator's Phone: 206-362-8378		Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name SL Express way		U.S. EPA ID Number VTR000007708				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, AZ 85353 Facility's Phone: (602) 233-0186		U.S. EPA ID Number AZD980735500				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III	44	DM	31340	P	D007
	2. RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III	2	CF	3131	P	F006
	3.					
	4.					
14. Special Handling Instructions and Additional Information Use CHEMTREC company code "WORR" P.O. #109435 TRIP# 055973 Kirk Beall 4630 50724						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Gerald Thompson		Signature [Signature]		Month Day Year 1/16/07		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kirk Beall Signature [Signature] Month Day Year 1/16/07 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H129 2. H129 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name DANNY RODRIGUEZ Signature [Signature] Month Day Year 1/22/07						

WORLD RESOURCES  
11:08AM 01/22/2007  
GROSS 1574 lb  
TARE 77 lb  
NET 1497 lb

WORLD RESOURCES  
11:10AM 01/22/2007  
GROSS 1359 lb  
TARE 77 lb  
NET 1282 lb  
ACCUM 2979 lb  
01/22/2007 11:10AM

1.49

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Form Approved. OMB No. 2050-0039

## GENERATOR

TRANSPORTER

**DESIGNATED FACILITY**

# Material Safety Data Sheet

MSDS ID # AZ-22-C

D007 Recyclable Material (Filter Cake)

Recycler:

**World Resources Company**

8113 West Sherman Street

Tolleson, AZ 85353

Tel: (602) 233 9166 Fax: (623) 936 9164

January 2006 DLS

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,

Call: **CHEMTREC 800-424-9300**

Use CHEMTREC Company Code "WORR"

From other countries call: 703-527-3887

## Section 1

## Material Identification

EPA Waste Classification: D007

Generic Name: Chromium Bearing Filter Cake

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste solid, n.o.s. (D007)

DOT Hazard Class: 9

DOT Packing Group: III

DOT Identification Number: NA 3077

Guide 171 of the North American Emergency Response Guidebook Applies

## Section 2

## Hazardous Ingredients

Ingredient:	CAS Number:	Content (%):	OSHA-PEL (8hr TWA):	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg(Cu)/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg
Chromic Hydroxide	1308-58-1	0 - 20	0.05 mg(Cr)/m <sup>3</sup> (Dust)	LD-50 Not Determined
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg(Ni)/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0 - 15	5.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0 - 10	5.0 mg/m <sup>3</sup> (Dust)	LD-50 Not Determined

## Section 3

## Physical and Reactivity Data

Description: Solid, Clay-like, Gray/Green  
to Brown, Moisture ~ 30 - 80%

Specific Gravity: 2.5 to 3.5

Solubility: Insoluble in Water

Density: 50 - 90 lbs/ft<sup>3</sup>

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid Contact with Acids

Boiling Point: Above 2,600°C

Melting Point: Above 1,800°C

pH: 7.0 to 10.0 Odor: Nil

Polymerization: Will Not Occur

## Section 4

## Fire and Explosion Data

Flashpoint: Nonflammable

Special Firefighting Procedures: None

Decomposition (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA  
Fire Diamond

## Section 5

## Toxicity

Listed Carcinogen Components: Nickel, Chromium

Toxicology: See Sec. 2

Route of Entry: Inhalation, Ingestion

## Section 6

## Health Effects and First Aid

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin with prolonged contact. Wash with soap and water.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions. Unprotected long-term overexposure may cause effects to the following target organs or body systems - blood, digestive, respiratory, liver, kidneys and skin.

## Section 7

## Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with this material. The PPE should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.

Spills: Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to consignee or return to World Resources Company at the above address.

## Section 8

## Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Eye Protection: Safety glasses recommended.

Other Protective Equipment: Coveralls are recommended, but not required.

Hand Protection: Gloves recommended.

## Section 9

## Generator's Verification

This MSDS describes the material listed in the attached Manifest #:

001580590 JJK

Company Name: Alaskan Copper Works

Company Address: 3200 Sixth Avenue South, Seattle, WA 98124

Telephone: 206-382-8379

Date: 1-16-07

Signature:

**WORLD RESOURCES COMPANY**

ARIZONA RECYCLING FACILITY

*In partnership with the environment***LDRN****LAND DISPOSAL RESTRICTION NOTICE****D007**

A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

TO: **WORLD RESOURCES COMPANY**

8113 West Sherman Street, Tolleson, AZ 85353

FROM: Alaskan Copper Works

3200 Sixth Avenue South, Seattle, WA 98124

[COMPANY NAME]

[COMPANY ADDRESS]

MANIFEST  
NUMBER:

001580590 JJK

DATE OF  
SHIPMENT:

1-16-07

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
D007	non-wastewater	40 CFR §268.40

SIGNATURE:

TITLE:

Enviro. Asst

NAME  
PRINTED:

Gerald Thompson

DATE:

1-16-07

### Instructions for the Completion of this Land Disposal Restriction Notice ( **D007** LDRN )

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

**D007 GENERATORS**

# Material Safety Data Sheet

MSDS ID # AZ-10-C

F006 Recyclable Material (Filter Cake)

Recycler:

**World Resources Company**

8113 West Sherman Street

Tolleson, AZ 85353

Tel: (602) 233 9166 Fax: (623) 936 9164

January 2006 DLS

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,

Call: **CHEMTREC 800-424-9300**

Use CHEMTREC Company Code "WORR"

From other countries call: 703-527-3887

## Section 1

## Material Identification

**EPA Waste Classification:** F006**Generic Name:** Electroplating/Metal-Finishing Wastewater Treatment Sludge**Chemical Family:** Metallic (Hydroxide) Precipitates**Synonym:** Non-ferrous Metal Hydroxide Filter Cake**DOT Shipping Name:** RQ, Hazardous waste solid, n.o.s. (F006)**DOT Hazard Class:** 9**DOT Packing Group:** III**DOT Identification Number:** NA 3077

Guide 171 of the North American Emergency Response Guidebook Applies

## Section 2

## Hazardous Ingredients

Ingredient:	CAS Number:	Content (%):	OSHA PEL (8hr TWA):	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg(Cu)/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg(Ni)/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0 - 15	5.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0 - 10	5.0 mg/m <sup>3</sup> (Dust)	LD-50 Not Determined

## Section 3

## Physical and Reactivity Data

<b>Description:</b> Solid, Clay-like, Gray/Green to Brown, Moisture ~ 30 - 80%	<b>Density:</b> 50 - 90 lbs/ft <sup>3</sup>	<b>Boiling Point:</b> Above 2,600°C
<b>Specific Gravity:</b> 2.5 to 3.5	<b>Incompatible Reactivity:</b> None Known	<b>Melting Point:</b> Above 1,800°C
<b>Solubility:</b> Insoluble in Water	<b>Vapor Pressure:</b> Insignificant	<b>pH:</b> 7.0 to 10.0 <b>Odor:</b> Nil
	<b>Stability:</b> Avoid Contact with Acids	<b>Polymerization:</b> Will Not Occur

## Section 4

## Fire and Explosion Data

<b>Flashpoint:</b> Nonflammable	<b>Oxidation:</b> Non-oxidizing
<b>Special Firefighting Procedures:</b> None	<b>Explosive:</b> Non-explosive
<b>Decomposition (Due to Fire or Explosion):</b> None	

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Fire Diamond

## Section 5

## Toxicity

<b>Listed Carcinogen Components:</b> Nickel	<b>Toxicology:</b> See Sec. 2	<b>Route of Entry:</b> Inhalation, Ingestion
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## Section 6

## Health Effects and First Aid

<b>Inhalation:</b> Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
<b>Ingestion:</b> Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.
<b>Eyes:</b> Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.
<b>Skin:</b> Dust may irritate skin with prolonged contact. Wash with soap and water.
<b>Comments:</b> Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions. Unprotected long-term overexposure may cause effects to the following target organs or body systems - blood, digestive, respiratory, liver, kidneys and skin.

## Section 7

## Precautions for Safe Handling

<b>Handling:</b> Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with this material. The PPE should include eye protection, respirator and gloves.
<b>Storage:</b> Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.
<b>Spills:</b> Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to consignee or return to World Resources Company at the above address.

## Section 8

## Control Measures

<b>Respiratory Protection:</b> NIOSH-MSHA approved respirators as required.	<b>Eye Protection:</b> Safety glasses recommended.
<b>Other Protective Equipment:</b> Coveralls are recommended, but not required.	<b>Hand Protection:</b> Gloves recommended.

## Section 9

## Generator's Verification

This MSDS describes the material listed in the attached Manifest #:

001580590 JJK

**Company Name:** Alaskan Copper Works**Company Address:** 3200 Sixth Avenue South, Seattle, WA 98124**Telephone:** 206-382-8379**Date:** 1-16-07**Signature:**

**WORLD RESOURCES COMPANY**

ARIZONA RECYCLING FACILITY

*In partnership with the environment***LDRN****LAND DISPOSAL RESTRICTION NOTICE****F006**

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation—and, typically, State analogues as well—requires the retention period to be extended further in specified cases.

**To:** **WORLD RESOURCES COMPANY** **8113 West Sherman Street, Tolleson, AZ 85353**  
**From:** **COMPANY NAME:** **Alaskan Copper Works** **COMPANY ADDRESS:** **3200 Sixth Avenue South, Seattle, WA 98124**

**MANIFEST NUMBER:** **001580590 JSK** **DATE OF SHIPMENT:** **1-16-07**

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268.  
The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	non-wastewater	40 CFR §268.40

**SIGNATURE:****TITLE:****Enviro. Asst****NAME PRINTED:****DATE:****1-16-07****Instructions for Completion of this Land Disposal Restriction Notice [LDRN]**

This LDRN has been prepared based on a listed material—F006—as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

An F006 designation on the LDRN *includes* the following constituents: cadmium [D006], chromium [D007], lead [D008], silver [D011], cyanide, and nickel. However, the designation does *not* include arsenic [D004], barium [D005], mercury [D009], or selenium [D010]. If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below [as stated in 40 CFR §268.9].

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then *no additional entry* is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) *must be added* to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE		
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40
BARIUM	100.0 mg/l	D005	non-wastewater	40 CFR §268.40
MERCURY	0.2 mg/l	D009	non-wastewater	40 CFR §268.40
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40

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**F006 GENERATORS**

AKC-0016610